

BRUHAT BENGALURU MAHANAGARA PALIKE

**IMPROVEMENTS TO ROADS AND DRAINS AT KAREKALLU AND VINAYAKA NAGARA IN WARD NO.14,
BAGALAGUNTE, DASARAHALLI-SUB-DIVISION
SL. NO. 05, G.O. NO. 87 (PACKAGE NO. - DHZ 01)**

Sl. No.	Description of Work	Chainage		Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
		from	to								
Dismantling Work (Footpath, Side Drains & Pre Cast Slabs)											
1	Removing and Stacking of BS slab (PW,P& IWTD SR 2018-19, Pg No 27 Item No.5.32)										
	Dismantling of Drain										
	Vinayakanagra Main Road	193.00	342.00	Sqm	1	149.00	1.35		201.15		
	Cross road 1	0.00	80.00	Sqm	2	80.00	1.35		216.00		
	Cross road 2	0.00	64.00	Sqm	2	64.00	1.35		172.80		
		*Breadth taken in Perimeter									
									589.95	104.94	61,909.35
2	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1. 00 km and complete as per specifications. MORTH Specification No.301 (PW,P & IWTD SR 2018-19, Item No.19.14, Page No.143)										
	Excavation For Dain										
	Vinayakanagra Main Road	193.00	342.00	Cum	1	157.00	0.90	0.45	63.59		
	Cross road 1	0.00	80.00	Cum	2	80.00	0.90	0.45	64.80		
	Cross road 2	0.00	64.00	Cum	2	65.00	0.90	0.45	52.65		
	Cross road 3	0.00	85.00	Cum	1	85.00	0.90	0.90	68.85		
	Earthwork For Culvert Portion										
	at Cross road 2			Cum	1	5.00	1.20	0.45	2.70		
	at Cross road 3			Cum	1	4.30	1.20	0.45	2.32		
	Road Formation										
	Vinayakanagra Main	193.00	342.00	Cum	1	149.00	6.20	0.40	369.52		
	Cross road 1	0.00	80.00	Cum	1	80.00	5.00	0.40	160.00		
	Cross road 2	0.00	64.00	Cum	1	64.00	5.40	0.40	138.24		
	Cross road 3	0.00	85.00	Cum	1	85.00	5.00	0.40	170.00		
	Total								1092.67	43.46	47,487.31
3	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)										
	Desilting of Drain										
	Vinayakanagra Main Road LHS	0.00	193.00	Cum	1	193.00	0.70	0.45	60.80		
	Vinayakanagra Main Road RHS	0.00	342.00	Cum	1	342.00	0.70	0.45	107.73		
	Earthwork for Kerb										
	Vinayakanagra Main Road	0.00	342.00	Cum	2	342.00	0.20	0.10	13.68		
	Cross road 1	0.00	80.00	Cum	2	80.00	0.20	0.10	3.20		
	Cross road 2	0.00	64.00	Cum	2	64.00	0.20	0.10	2.56		
	Cross road 3	0.00	85.00	Cum	2	85.00	0.20	0.10	3.40		
	For New Drain Portion			Cum	4	0.31		1.80	2.24		
	Total								193.61	137.80	26,679.42

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Sl. No.	Description of Work	Chainage		Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
		from	to								
4	KSRB 4-1.7: Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per Specification No. KBS 4.1, 4.2 (PW,P& IWTDR SR 2018-19 P-13, I-4.7)										
	M10 Concrete - PCC For drain										
	Vinayakanagra Main Road	193.00	342.00	Cum	1	149.00	0.90	0.15	20.12		
	Cross road 1	0.00	80.00	Cum	2	80.00	0.90	0.15	21.60		
	Cross road 2	0.00	64.00	Cum	2	64.00	0.90	0.15	17.28		
	Cross road 3	0.00	85.00	Cum	1	85.00	0.90	0.15	11.48		
	M10 Concrete - PCC For culvert										
	at Cross road 2			Cum	1	5.00	1.20	0.15	0.90		
	at Cross road 3			Cum	1	4.30	1.20	0.15	0.77		
	M10 Concrete - PCC For Kerb										
	Vinayakanagra Main Road	0.00	342.00	Cum	2	342.00	0.20	0.10	13.68		
	Cross road 1	0.00	80.00	Cum	2	80.00	0.20	0.10	3.20		
	Cross road 2	0.00	64.00	Cum	2	64.00	0.20	0.10	2.56		
	Cross road 3	0.00	85.00	Cum	2	85.00	0.20	0.10	3.40		
									94.98	5714.97	5,42,830.40
5	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height. (PW,P& IWTDR SR 2018-19 P-227, I-28.7.12)										
	M25 Concrete - For drain Raft										
	Vinayakanagra Main Road	193.00	342.00	Cum	1	149.00	0.90	0.15	20.12		
	Cross road 1	0.00	80.00	Cum	2	80.00	0.90	0.15	21.60		
	Cross road 2	0.00	64.00	Cum	2	64.00	0.90	0.15	17.28		
	Cross road 3	0.00	85.00	Cum	1	85.00	0.90	0.15	11.48		
	M25 Concrete - For drain Wall										
	Vinayakanagra Main Road	193.00	342.00	Cum	2	149.00	0.15	0.90	40.23		
	Cross road 1	0.00	80.00	Cum	4	80.00	0.15	0.90	43.20		
	Cross road 2	0.00	64.00	Cum	4	64.00	0.15	0.90	34.56		
	Cross road 3	0.00	85.00	Cum	2	85.00	0.15	0.90	22.95		
	For Culvert Portion										
	M25 Concrete - For culvert Raft										
	at Cross road 2			Cum	1	5.00	1.00	0.20	1.00		
	at Cross road 3			Cum	1	4.30	1.00	0.20	0.86		
	M25 Concrete - For culvert wall										
	at Cross road 2			Cum	2	5.00	0.20	0.90	1.80		
	at Cross road 3			Cum	2	4.30	0.20	0.90	1.55		
									216.62	5775.37	12,51,049.96

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Sl. No.	Description of Work	Chainage		Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
		from	to								
6	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500(PW,P& IWTD SR 2018-19, Pg No 229 Item No.28.8.2)										
						Drain concrete quantity		211.41			
	Quantity at 60 kg/ Cum of M25 concrete for Drains			Tonne					12.68		
						Culvert concrete quantity		5.21			
	Quantity at 100 kg/ Cum of M25 Concrete Culvert			Tonne					0.52		
									13.21	72,326.98	9,55,106.70
7	KSRRB M2200-1 Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications including cost of materials, labour, HOM complete as per specifications. MORTH Specification No.2706 & 2200(PW,P& IWTD SR 2018-19 P-229, I-28.10)										
	At 1.5m Center to Center Spacing										
	Drain										
	Vinayakanagra Main Road	193.00	342.00	Rmt	99	0.15			14.90		
	Cross road 1	0.00	80.00	Rmt	107	0.15			16.00		
	Cross road 2	0.00	64.00	Rmt	85	0.15			12.80		
	Cross road 3	0.00	85.00	Rmt	57	0.15			8.50		
	For Culvert										
	at Cross road 2			Rmt	7	0.20			1.33		
	at Cross road 3			Rmt	6	0.20			1.15		
									54.68	155.82	8,520.24
8	Removing and resetting of footpath slab (PW,P& IWTD SR 2018-19 P-270, I-37.56)										
	For Drain Cover Slabs										
	Vinayakanagra Main Road LHS	0.00	193.00	Sqm	1	193.00	0.90		173.70		
	Vinayakanagra Main Road RHS	0.00	342.00	Sqm	1	342.00	0.90		307.80		
	Resetting slab within Ward using Ward labours										
	Vinayakanagra Main Road	193.00	342.00	Sqm	1	149.00	1.35		201.15		
	Cross road 1	0.00	80.00	Sqm	2	80.00	1.35		216.00		
	Cross road 2	0.00	64.00	Sqm	2	64.00	1.35		172.80		
	Total								1071.45	208.82	2,23,740.19
9	KSRB 15.2.2 : Providing ruled pointing 20 mm deep to stone slab pavements with cement mortar 1:3, 20mm deep, after raking joints nicely lining, including cost of materials, labour, curing complete as per specifications. (PW,P& IWTD SR 2018-19 P-115, I-15.8)										
	Pointing for resetting slabs										
	Vinayakanagra Main Road LHS	0.00	193.00	Sqm	1	193.00	0.90		173.70		

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Sl. No.	Description of Work	Chainage		Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
		from	to								
	Vinayakanagra Main Road RHS	0.00	342.00	Sqm	1	342.00	0.90		307.80		
	Resetting slab within Ward using Ward labours										
	Vinayakanagra Main Road	193.00	342.00	Sqm	1	149.00	1.35		201.15		
	Cross road 1	0.00	80.00	Sqm	2	80.00	1.35		216.00		
	Cross road 2	0.00	64.00	Sqm	2	64.00	1.35		172.80		
									1071.45	49.06	52,563.24
10	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surface on both sides etc, and complete as per the directions of Engineer in charges. (Data Rate)										
	For Drain Cover Slabs										
	Vinayakanagra Main Road	193.00	342.00	Sqm	1	149.00	0.90		134.10		
	Cross road 1	0.00	80.00	Sqm	2	80.00	0.90		144.00		
	Cross road 2	0.00	64.00	Sqm	2	64.00	0.90		115.20		
	Cross road 3	0.00	85.00	Sqm	1	85.00	0.90		76.50		
	Total								469.80	1615.00	7,58,727.00
11	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplasticizer @3lts confirming to 189103-1999 Reaffirmed-2008, Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of Engineer in-Charge. (Data Rate)										
	For Culvert Slabs										
	at Cross road 2			Sqm	1	5.00	1.00		5.00		
	at Cross road 3			Sqm	1	4.30	1.00		4.30		
									9.30	3674.00	34,168.20
12	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3 (PW,P& IWTD SR 2018-19, Pg No 147 Item No.19.64)										
	Road Formation										
	Vinayakanagra Main Road	193.00	342.00	Sqm	1	149.00	6.20		923.80		
	Cross road 1	0.00	80.00	Sqm	1	80.00	5.00		400.00		
	Cross road 2	0.00	64.00	Sqm	1	64.00	5.40		345.60		
	Cross road 3	0.00	85.00	Sqm	1	85.00	5.00		425.00		
									2094.40	6.36	13,320.38

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Sl. No.	Description of Work	Chainage		Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
		from	to								
13	CONCRETE PAVEMENT KSRRB M600- Cement Concrete Pavements										
	KSRRB M600-1. Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (PW,P& I WTD SR 2018-19 P-174, I-22.1.2)										
	Road Formation										
	Vinayakanagra Main Road	193.00	342.00	Cum	1	149.00	6.20	0.10	92.38		
	Cross road 1	0.00	80.00	Cum	1	80.00	5.00	0.10	40.00		
	Cross road 2	0.00	64.00	Cum	1	64.00	5.40	0.10	34.56		
	Cross road 3	0.00	85.00	Cum	1	85.00	5.00	0.10	42.50		
									209.44	3944.51	8,26,137.99
14	KSRRB M400-17. Providing, laying, spreading and compacting Crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406. (PW,P& I WTD SR 2018-19, Pg No 155, Item No. 20.18)										
	Road Formation										
	Vinayakanagra Main Road	193.00	342.00	Cum	1	149.00	6.20	0.10	92.38		
	Cross road 1	0.00	80.00	Cum	1	80.00	5.00	0.10	40.00		
	Cross road 2	0.00	64.00	Cum	1	64.00	5.40	0.10	34.56		
	Cross road 3	0.00	85.00	Cum	1	85.00	5.00	0.10	42.50		
									209.44	2001.28	4,19,148.08
15	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour, hire charges of machineries, all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (PW,P& I WTD SR 2018-19, Pg No 176 Item No. 22.6.1)										
	Vinayakanagra Main Road	193.00	342.00	Cum	1	149.00	6.20	0.16	147.81		
	Cross road 1	0.00	80.00	Cum	1	80.00	5.00	0.16	64.00		
	Cross road 2	0.00	64.00	Cum	1	64.00	5.40	0.16	55.30		
	Cross road 3	0.00	85.00	Cum	1	85.00	5.00	0.16	68.00		
										335.10	5354.02

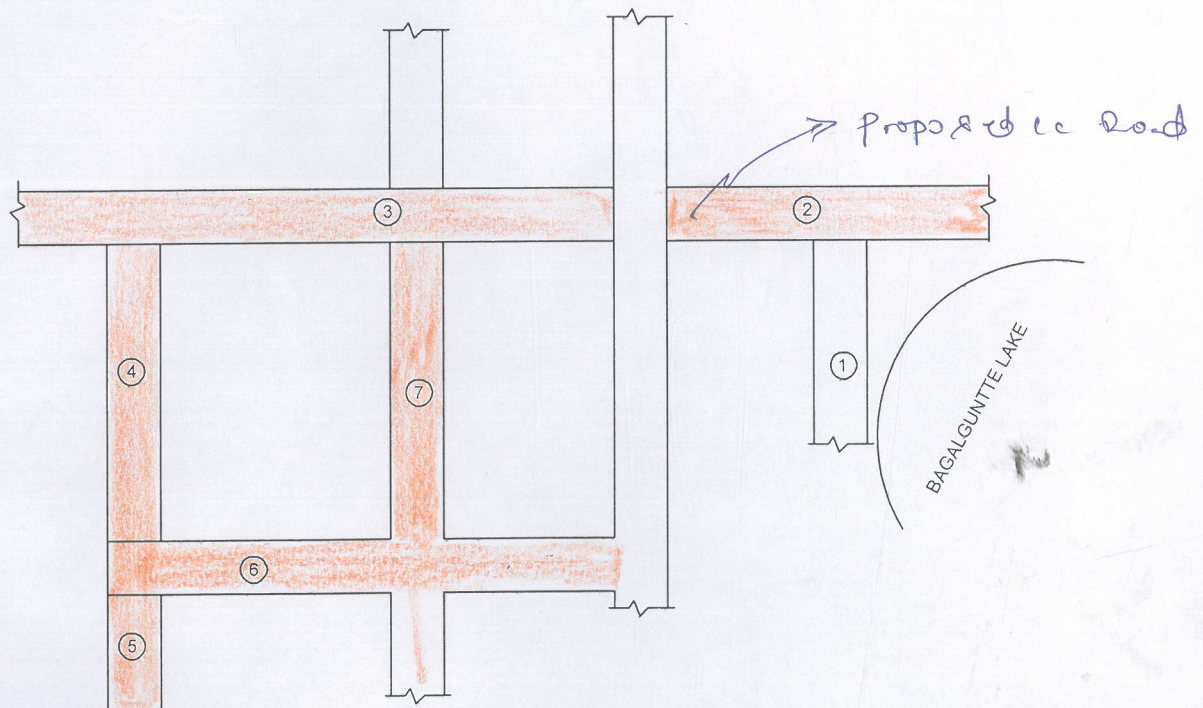
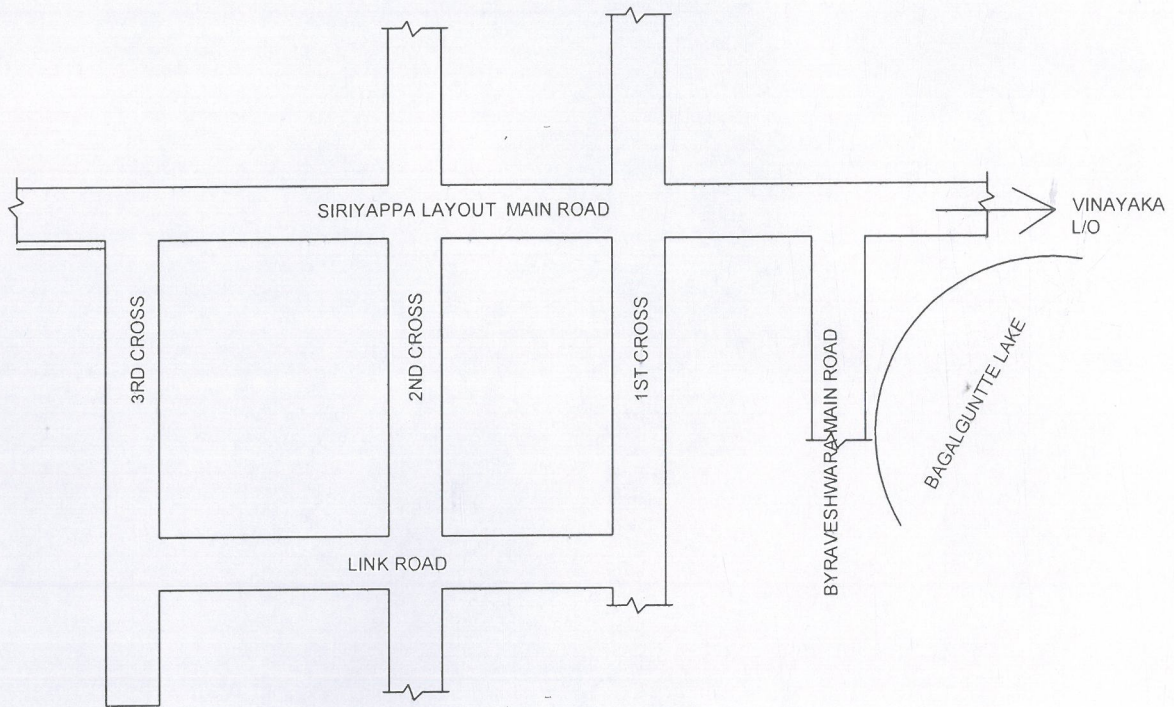
BRUHAT BENGALURU MAHANAGARA PALIKE

Sl. No.	Description of Work	Chainage		Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
		from	to								
16	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (PW,P& IWTDR SR 2018-19, Pg No 27 Item No.5.30)										
	New Kerb										
	Vinayakanagra Main Road	0.00	342.00	Nos	2	342.00			1520.00		
	Cross road 1	0.00	80.00	Nos	2	80.00			356.00		
	Cross road 2	0.00	64.00	Nos	2	64.00			286.00		
	Cross road 3	0.00	85.00	Nos	2	85.00			378.00		
	Total								2540.00	435.84	11,07,024.74
17	KSRRB M800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications, MORTH Chapter 8 (PW,P& IWTDR SR 2018-19, Pg No 180, Item No. 24.1)										
	Kerb painting										
	Vinayakanagra Main	0.00	342.00	Sqm	2	342.00	0.35		239.40		
	Cross road 1	0.00	80.00	Sqm	2	80.00	0.35		56.00		
	Cross road 2	0.00	64.00	Sqm	2	64.00	0.35		44.80		
	Cross road 3	0.00	85.00	Sqm	2	85.00	0.35		59.50		
									399.70	84.80	33,894.56
18	Removal of Unservicable soil, Loading, unloading and Cost of Haulage KSRRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications MORTH Specification No. 301. (PW,P& IWTDR SR 2018-19, Pg No 144, Item No.19.20)										
	Vide Item No 2, 3 .			Cum					1286.28		
									1286.28	34.98	44,993.96
19	KSRRB M100-4.1. Cost of haulage Excluding Loading and Unloading MORTH-100/Chapter 1 case-I surface road (PW,P& IWTDR SR 2018-19, Pg No 136, Item No.17.4)										
	Vide Item No 18.			Cum					1286.28		
									1286.28	69.12	88,907.45
	Rain Water Harvesting										
20	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.										
	a) 40mm Jelly.			Cum	4	0.31	0.40	0.50	1901.00		948.26
						(3.142*0.63*0.63)/4					
	b) 20mm Jelly.			Cum	4	0.31	0.40	0.50	1901.00		948.26
	c) Coarse sand.			Cum	4	0.31	0.30	0.37	2651.00		991.79
	d) Fine Sand			Cum	4	0.31	0.20	0.25	2651.00		661.19
	e) 12.5mm chips			Cum	4	0.31	0.30	0.37	1901.00		711.20
21	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit)										

BRUHAT BENGALURU MAHANAGARA PALIKE

ADMINISTRATIVELY SANCTIONED FOR 2.99.20
(Rupees) Ninety nine lakh only
Under the Head of Account P-3727 SC-Sp/TSP
Mukya mantrigala Nava Bengaluru Yojane
Nava-nagaranathana Yojane
Registered under EC, 172/19-20
to conditions of contract 172/19-20
No. EE/DD/AS /172/19-20 14/11/2019
JE/AE.
(DASARA)

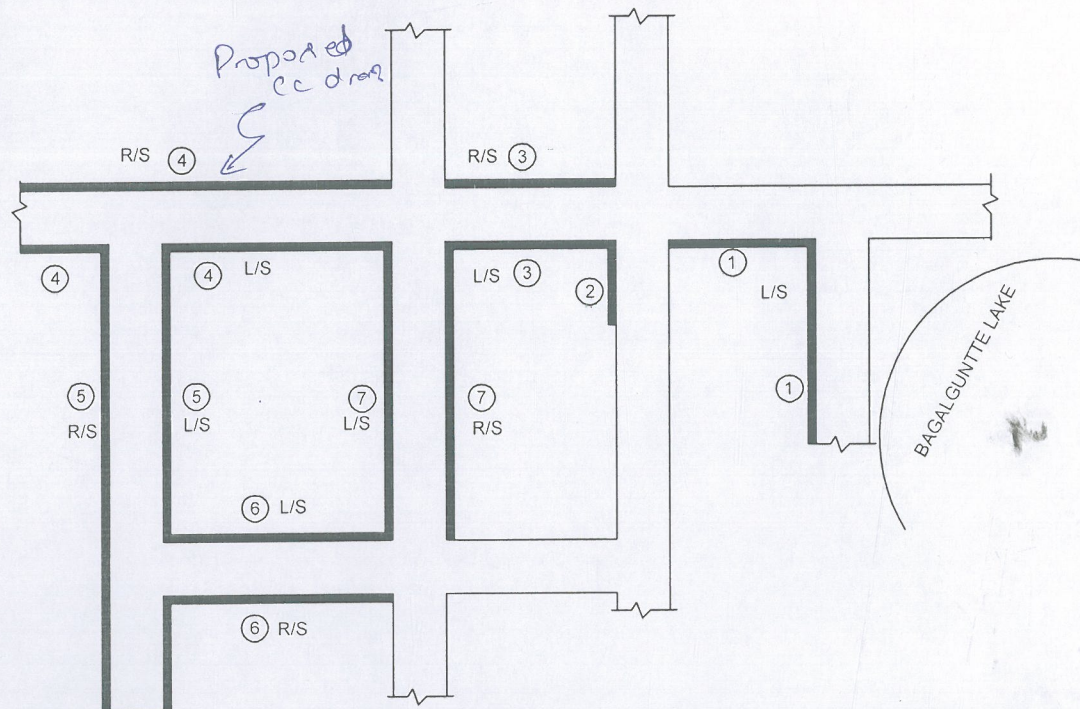
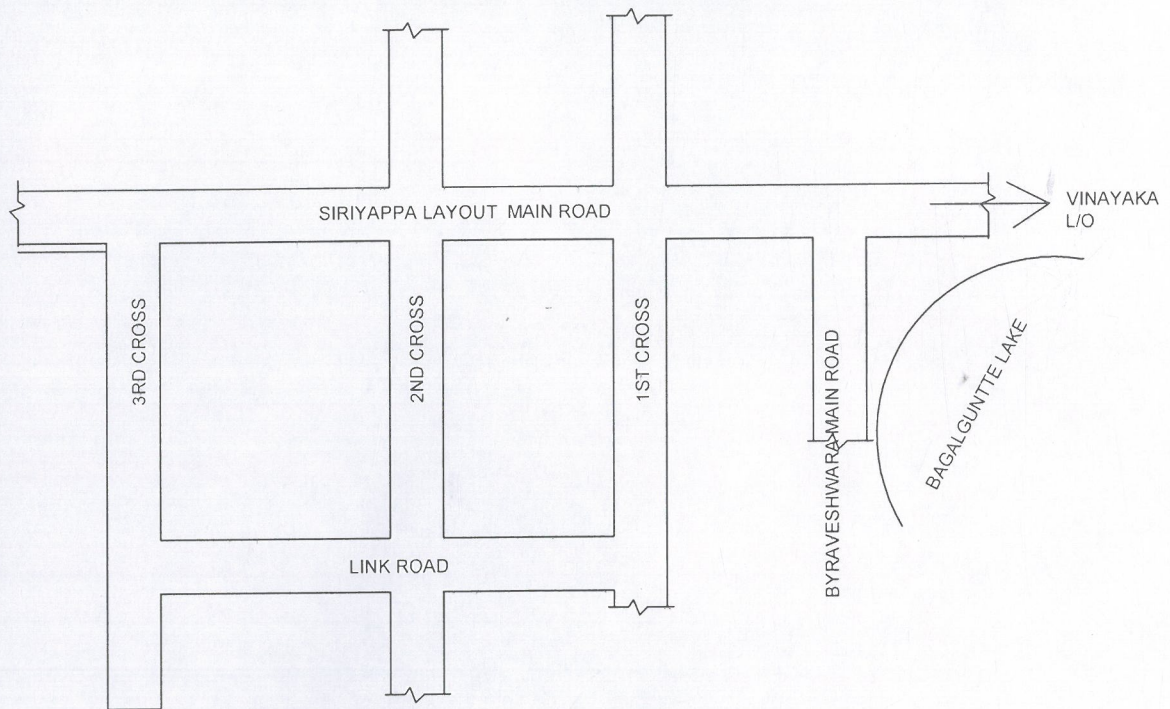
CC ROAD EXECUTED PLAN



Assistant Engineer-14

Assistant Executive Engineer
T DASARAHALLI SUB DIVISION

CC DRAIN EXECUTED PLAN



Assistant Engineer-14

Assistant Executive Engineer
T DASARAHALLI SUB DIVISION